

# 400 ton CAPACITY ZCC4000V



**ZOOMLION**

**Zoomlion Heavy Industry Science & Technology Co.,Ltd.**

Add: No.677, Lugu Road, Zoomlion Industrial Park, Changsha, Hunan, China, 410205

Copyright©2023 Zoomlion. All rights reserved. Reproduction and copying of any part of contents is not allowed for any purposes without Zoomlion's approval.



Product specifications are subject to change without notice and obligation. The photographs and/or drawing in this document are for illustrative purposes only. Please consult your local ZOOMLION dealer for more information.  
website:en.zoomlion.com 2023.04.18

**ZOOMLION**

VISION CREATES FUTURE

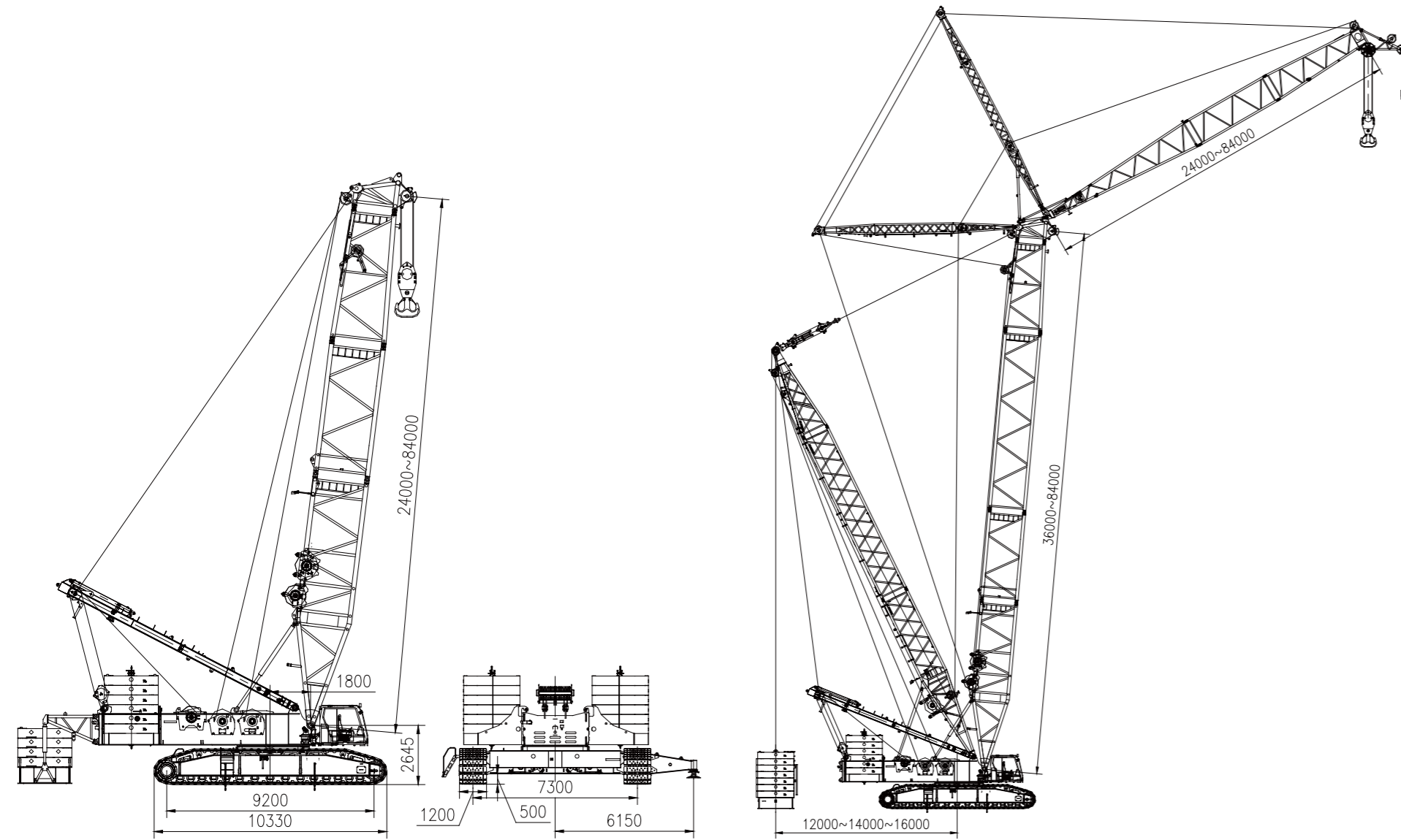
## CONTENTS 目录

ZCC4000V	DEMENSIONS	01
ZCC4000V	DESCRIPYION ON BOOM COMBINATION	02
ZCC4000V	TRANSPORTATION AND WEIGHTS	03/09
ZCC4000V	TECHNICAL DESCRIPTION	10/12
ZCC4000V	LIFTING PERFORMANCE	13/22
ZCC4000V	TECHNICAL PARAMETERS	23



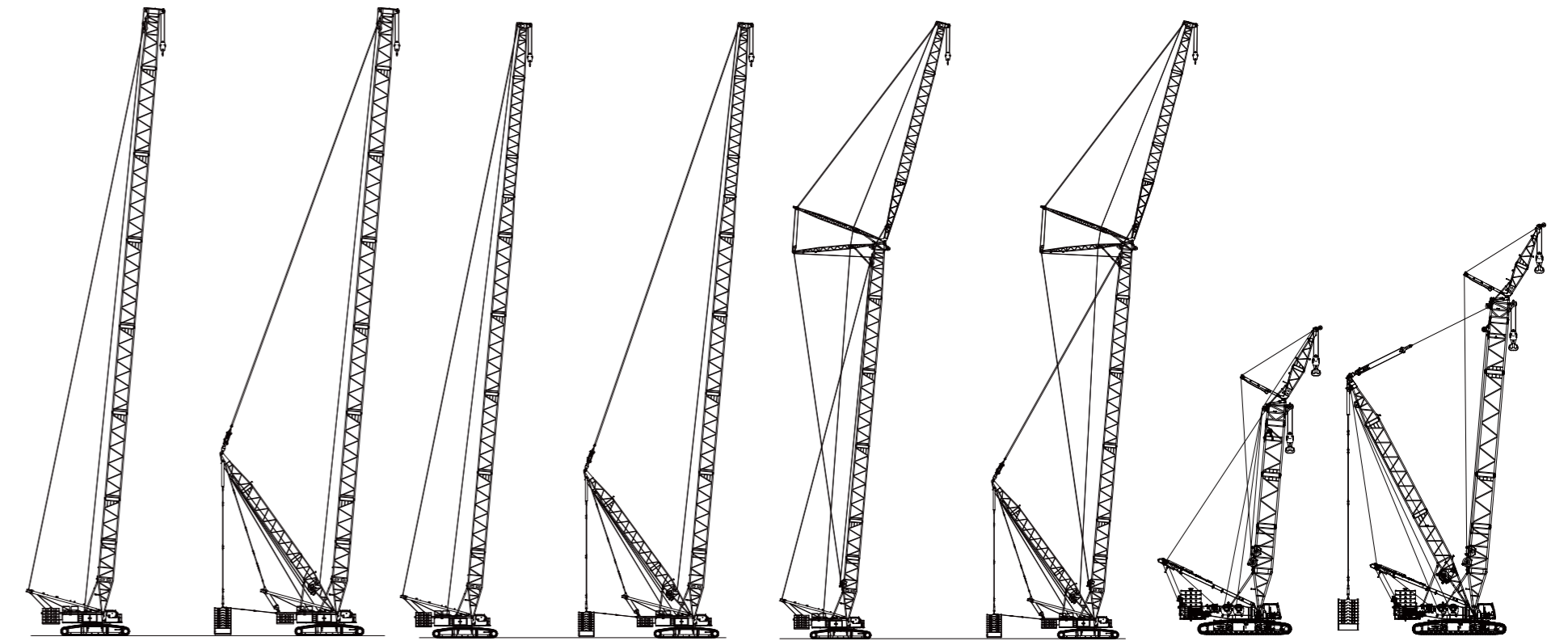
## DEMONSTRATIONS

Overall dimensions and major technical parameters  
Overall dimensions of the crane

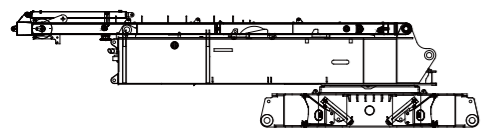


## DESCRIPTION ON BOOM COMBINATION

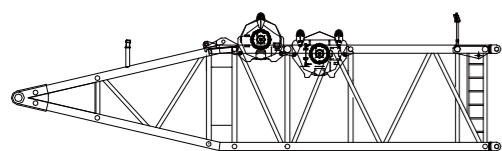
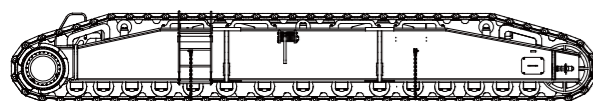
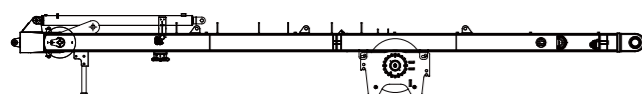
Code	Operating mode	Lengths
S	Standard heavy main boom	S=24m~84m
SA	Standard heavy main boom (with additional counterweight)	S=24m~84m
SDB	Superlift heavy main boom	S=36m~96m
SL	Standard light main boom	SL=72m~108m
SLDB	Superlift light main boom	SL=72m~126m
SW	Standard luffing jib	S=30m~60m W=24m~72m
SWDB	Superlift luffing jib	S=36m~84m W=24m~84m
SFVA	Standard fixed jib for shield-tunneling machine	S=24m FV=9~12 m
SFVDB	Superlift fixed jib for shield-tunneling machine	S=36m FV=9~12m



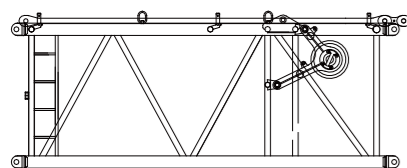
## TRANSPORT DIMENSIONS AND WEIGHTS OF MAJOR COMPONENTS



The weight of the main and the secondary hoisting mechanisms is not included. The slewing platform without A-frame weighs 42t with a transport height of 3150mm.



With luffing jib derricking winch (4.8t) and tip boom hoisting winch (3.5t).



<b>Slewing platform</b>	1 piece
Length(L)	14200 mm
Width (W)	3100 mm
Height (H)	3530 mm
Weight	53.1 t

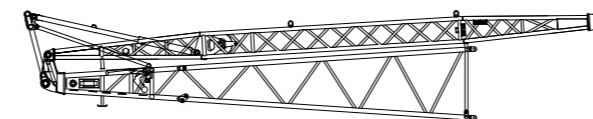
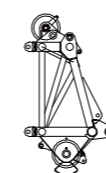
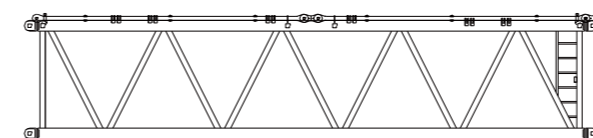
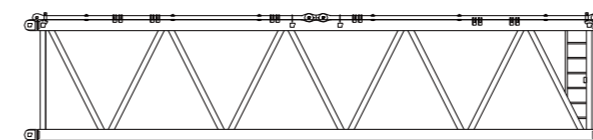
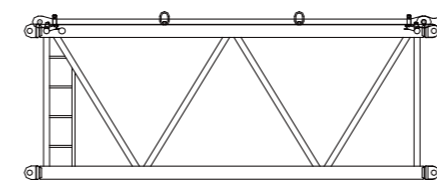
<b>A-frame</b>	1 piece
Length (L)	12150 mm
Width (W)	2200 mm
Height (H)	1530 mm
Weight	11.1 t

<b>Track assy.</b>	2 pieces
Length (L)	10330 mm
Width (W)	1500 mm
Height (H)	1600mm
Weight	25.7 t

<b>Main boom pivot section</b>	1 piece
Length (L)	11500 mm
Width (W)	3000 mm
Height (H)	3300mm
Weight	14.7 t

<b>Main boom head section</b>	1 piece
Length (L)	6170mm
Width (W)	3000 mm
Height (H)	2650 mm
Weight	3.2 t

## TRANSPORT DIMENSIONS AND WEIGHTS OF MAJOR COMPONENTS



<b>6m main boom intermediate section G12</b>	1 piece
Length(L)	6250 mm
Width (W)	3000mm
Height (H)	2650 mm
Weight	3.3t

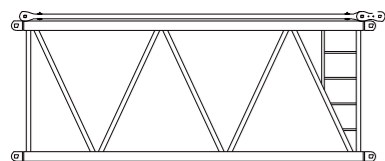
<b>12m main boom intermediate section G15B</b>	3 pieces
Length(L)	12300 mm
Width (W)	3000mm
Height (H)	2650 mm
Weight	5.1 t

<b>12m main boom intermediate section G15</b>	2 pieces
Length(L)	12300 mm
Width (W)	3000mm
Height (H)	2650 mm
Weight	4.6t

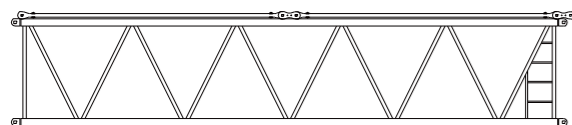
<b>Main boom head adapto</b>	1 piece
Length(L)	1900mm
Width (W)	2600mm
Height (H)	3450mm
Weight	3.3t

<b>Luffing jib pivot section + WA-frame 1</b>	1 piece
Length(L)	15600 mm
Width (W)	2500mm
Height (H)	2900 mm
Weight	7.2 t

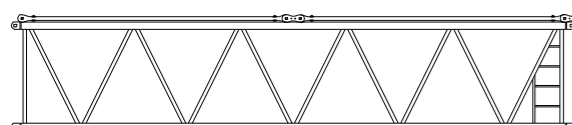
## TRANSPORT DIMENSIONS AND WEIGHTS OF MAJOR COMPONENTS



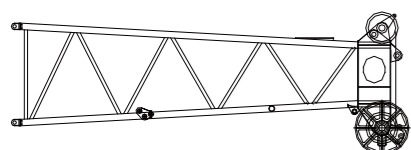
6m luffing jib intermediate section	2 pieces
Length (L)	6150mm
Width (W)	2450 mm
Height (H)	2150mm
Weight	1.6 t



12m luffing jib intermediate section G25	3 pieces
Length (L)	12300 mm
Width (W)	2450 mm
Height (H)	2150 mm
Weight	2.9 t



12m luffing jib intermediate section G25A	2 pieces
Length (L)	12300 mm
Width (W)	2450 mm
Height (H)	2150 mm
Weight	2.7 t

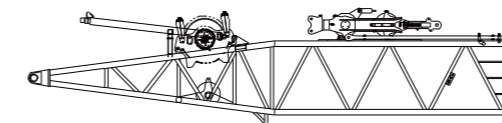


Luffing jib head	1 piece
Length (L)	7400 mm
Width (W)	2410 mm
Height (H)	2700mm
Weight	3.8t

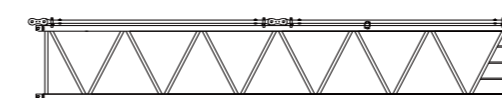


WA-frame 2	1 piece
Length (L)	13600mm
Width (W)	2420mm
Height (H)	1045 mm
Weight	3.7 t

## TRANSPORT DIMENSIONS AND WEIGHTS OF MAJOR COMPONENTS

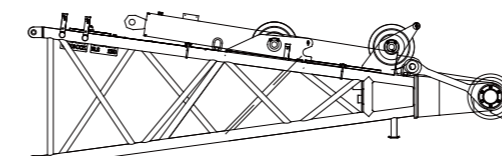


With superlift derricking pulley block (2.7t) and superlift derricking mechanism.

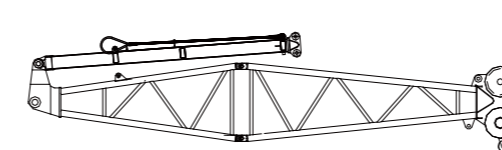


Derrick boom pivot section	1 piece
Length(L)	12220 mm
Width (W)	2950 mm
Height (H)	2700 mm
Weight	13.2 t

12m derrick boom intermediate section	1 piece
Length(L)	12140 mm
Width (W)	2950 mm
Height (H)	2100 mm
Weight	4.1 t

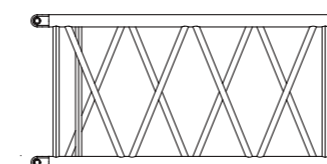


Derrick boom head	1 piece
Length(L)	6550mm
Width (W)	2950 mm
Height (H)	2100mm
Weight	6.0t



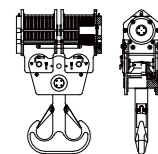
With front and rear anchoring rods and FA-frame

Jib for shield-tunneling machine (9m)	1 piece
Length(L)	9500 mm
Width (W)	2500 mm
Height (H)	2400mm
Weight	5.8 t

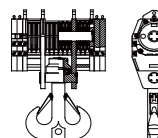


Intermediate section for jib for shield-tunneling machine (Jib for shield-tunneling machine: 3m)	1 piece
Length(L)	3120 mm
Width (W)	1750 mm
Height (H)	1670mm
Weight	0.7 t

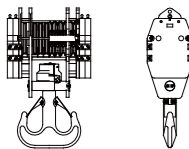
## TRANSPORT DIMENSIONS AND WEIGHTS OF MAJOR COMPONENTS



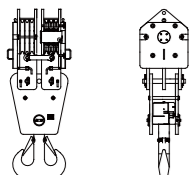
<b>Hook (400t)</b>	1 piece
Length (L)	2000 mm
Width (W)	820mm
Height (H)	3100mm
Weight	7.2 t



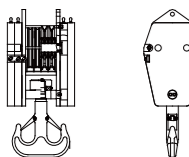
<b>Hook (300t)</b>	1 piece
Length (L)	1780 mm
Width (W)	820mm
Height (H)	2650 mm
Weight	6.9 t



<b>Hook (200t)</b>	1 piece
Length (L)	1480 mm
Width (W)	820mm
Height (H)	2470 mm
Weight	5.5 t

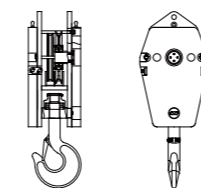


<b>Hook (160t)</b>	1 piece
Length (L)	1040mm
Width (W)	860 mm
Height (H)	3050 mm
Weight	5.3 t

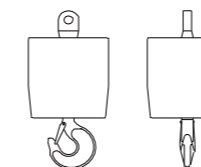


<b>Hook (100t)</b>	1 piece
Length (L)	940 mm
Width (W)	800 mm
Height (H)	2010mm
Weight	3.6 t

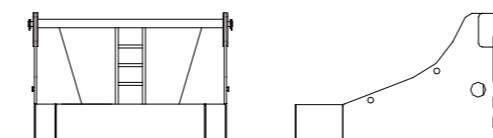
## TRANSPORT DIMENSIONS AND WEIGHTS OF MAJOR COMPONENTS



<b>Hook (50t)</b>	1 piece
Length(L)	900 mm
Width (W)	800 mm
Height (H)	2010 mm
Weight	2.2t



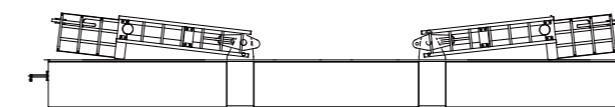
<b>Hook (16t)</b>	1 piece
Length(L)	530 mm
Width (W)	530 mm
Height (H)	1140 mm
Weight	0.9 t



<b>Rear counterweight frame</b>	2 pieces
Length(L)	2900 mm
Width (W)	2700 mm
Height (H)	1720mm
Weight	15 t



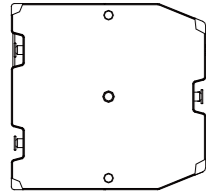
<b>Central ballast frame</b>	2 pieces
Length(L)	5800 mm
Width (W)	1670mm
Height (H)	800 mm
Weight	20 t



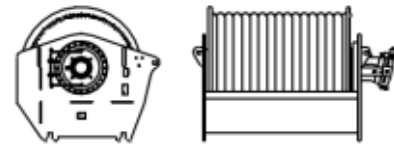
With part of anchoring rods for suspended ballast

<b>Suspended ballast frame</b>	1 piece
Length(L)	9300 mm
Width (W)	2650mm
Height (H)	1500 mm
Weight	30t

## TRANSPORT DIMENSIONS AND WEIGHTS OF MAJOR COMPONENTS

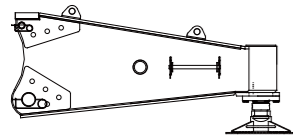


Counterweight slab of 10t	28 pieces
Length (L)	2500 mm
Width (W)	2400 mm
Height (H)	430 mm
Weight	10 t



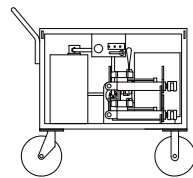
With hoisting rope

Main hoisting winch	2 pieces
Length (L)	1950 mm
Width (W)	1200 mm
Height (H)	1200mm
Weight	5.7 t



Without support plate

Auxiliary outrigger	2 pieces
Length (L)	2350 mm
Width (W)	320 mm
Height (H)	1100 mm
Weight	0.7 t



Hydraulic pump unit	1 piece
Length (L)	1400 mm
Width (W)	800 mm
Height (H)	1100 mm
Weight	0.4 t

## TECHNICAL DESCRIPTION

### Main hoisting mechanism, secondary hoisting mechanism and tip boom hoisting mechanism.

- Each of the mechanisms is composed of a built-in axial piston variable displacement motor, a balance valve, a reducer, a normally-closed brake and wire rope, which can be controlled independently.
- High-quality and anti-rotation wire rope.
- Main hoisting mechanism, secondary hoisting mechanism (luffing jib derricking mechanism) and tip boom hoisting mechanism are able to realize infinitely variable speeds from 0 to the maximum speed, largely improving the working efficiency.

Main hoisting mechanism	Diameter of reel	620mm
	Speed of the outmost layer	160m/min
	Rope diameter	Φ26mm
	Rope length	800m
	Rated single rope tension	14.5t

Secondary hoisting mechanism	Diameter of reel	620mm
	Speed of the outmost layer	160m/min
	Rope diameter	Φ26mm
	Rope length	800m
	Rated single rope tension	14.5t

Tip boom hoisting mechanism	Diameter of reel	620mm
	Speed of the outmost layer	139m/min
	Rope diameter	Φ26mm
	Rope length	350m
	Rated single rope tension	15t

### Derricking mechanism

- The derricking mechanism is composed of a built-in axial piston variable displacement motor, a balance valve, a reducer, a normally-closed brake and wire rope, which can be controlled independently.
- High-quality and non-anti-rotation wire rope.

Main derricking mechanism	Diameter of reel	2×620mm
	Speed of the outmost layer	2×55m/min
	Rope diameter	Φ26mm
	Rope length	635m
	Rated single rope tension	14.5t

Luffing jib derricking mechanism	Diameter of reel	620mm
	Speed of the outmost layer	154m/min
	Rope diameter	Φ26mm
	Rope length	600m
	Rated single rope tension	14.5t

Superlift derricking mechanism	Diameter of reel	620mm
	Speed of the outmost layer	160m/min
	Rope diameter	Φ26mm
	Rope length	870m
	Rated single rope tension	14.5t

## TECHNICAL DESCRIPTION

### Slewing mechanism

- It is composed of a built-in axial piston double-variable displacement motor, a dual-gear reducer, a normally closed slewing brake, a small gear, and a slewing bearing. It realizes slewing for 360° through the slewing bearing driven by the small gear, thus realizing the slewing of superstructure.
- Infinite slewing speed regulation: from 0 to 1.2r/min.

### Crawling mechanism

- The crawling mechanism is fitted with two variable displacement motors and two reducers. Each track is controlled by a joystick. It is able to make such movements as crawling in a straight line, turning with one track, differential steering, pivot steering, crawling with a load with a high level of maneuverability and flexibility.
- Crawling speed: 0~1.0km/h.
- Gradeability: 20%.
- Tensioning of track: the track can be tensioned through a hydraulic cylinder quickly and conveniently.

### A-frame erecting mechanism

- The A-frame erecting mechanism is composed of A-frame, A-frame erecting cylinder, auxiliary hydraulic system, etc. It is mainly used during assembly, dismantling or transport.
- It is safer and more reliable that cylinder is directly connected with plate-type balance valve.
- After the A-frame is erected for over 90°, it can be used to connect anchoring rods, install boom sections and install tracks and counterweight.

### Cab swiveling mechanism and pitching mechanism

- To reduce the width of the basic machine during transport, the operator's cab can be swiveled for 90° from one side of the slewing platform to the front, which is then fixed with a locating pin. This is convenient for transportation.
- Pitching-up or pitching-down is controlled by a cylinder. The operator's cab can be pitched up for 20° if the load is hoisted high, broadening the vision of the crane operator.

### Counterweight and installation of counterweight

- The counterweight assy. is composed of counterweight frame, counterweight, bearing chain and fixing pin.

### Outrigger erecting and track self-assembly/dismantling mechanism

- The outrigger erecting and track self-assembly/dismantling mechanism consists of undercarriage outriggers, outrigger cylinders, undercarriage control valves, bolting pins, etc.
- The outrigger erecting mechanism is the main load-bearing mechanism for self-assembly and dismantling of track. Track bolting cylinders are used to connect the track to the undercarriage center section. The track can be assembled /dismantled by the crane itself without help of an auxiliary crane, thus improving the working efficiency, reducing the labor intensity and guaranteeing the safe operation of crane.

## TECHNICAL DESCRIPTION

### Hydraulic system

- The hydraulic system is composed of main pump, auxiliary valve, hydraulic motor, hydraulic oil tank, and oil cooler, etc.
- It is equipped with a worldwide advanced pump-controlling system and a load-sensitive system. Main hydraulic elements are of famous brands both at home and abroad, which are energy-saving and highly reliable with a long service life.
- Cooler: aluminum radiator with a hydraulic-driving fan.

### Electrical system

- DC 24V, negative ground, two storage batteries of 195AH.
- The electrical system of machine includes power source, engine start, engine shutdown, indicating light, alarm device, illumination device, fan, wiper, horn, hoisting limiter, hydraulic oil cooling fan, digital display system, PLC controller, load moment limiter, engine preheating device, safety equipment etc. which not only ensure safe operation of the crane but also provide a good working environment. CAN bus control technology applied in the crane connects engine, PLC controller, load moment limiter and digital display efficiently. It possesses the function of fault detecting and self-diagnosis.

### Power system

- WeiChai engine with CAN bus interface.
- Rated output power/ rotational speed: 316kw, 1900r/min.
- Maximum output torque: 1800Nm, (1000~1400)r/min.
- Exhaust emission standard: China IV for Non-road Mobile Machinery .
- Fuel tank has a great capacity of 700 L, which ensures long working hours of engine.

### Digital display system

- LCD with a large touch screen is able to display all kinds of signals of operating mode collected by PLC in multiple languages, including rotational speed of engine, water temperature, fuel oil pressure, hydraulic pump pressure, major motor pressure, operational condition of the basic machine, etc. It also carries out real-time monitoring on working condition and sends out yellow or red alarm when the crane is in abnormal conditions.

### Centralized lubricating system

- The centralized lubricating system largely increases the service life of the crane.

### Operator's cab

- It is an all-steel structured cab with tempered glass around. The top and front windows are laminated glasses. The cab is equipped with a right sun visor, an adjustable seat, a wiper, an electrical control lever, a load moment limiter, a digital display, a remote control box of various switches, an air conditioner, an electric fan, a head lamp, a cigarette lighter, a fire extinguisher, etc. The operator's cab has a broad vision and a capacious and comfortable inner space.

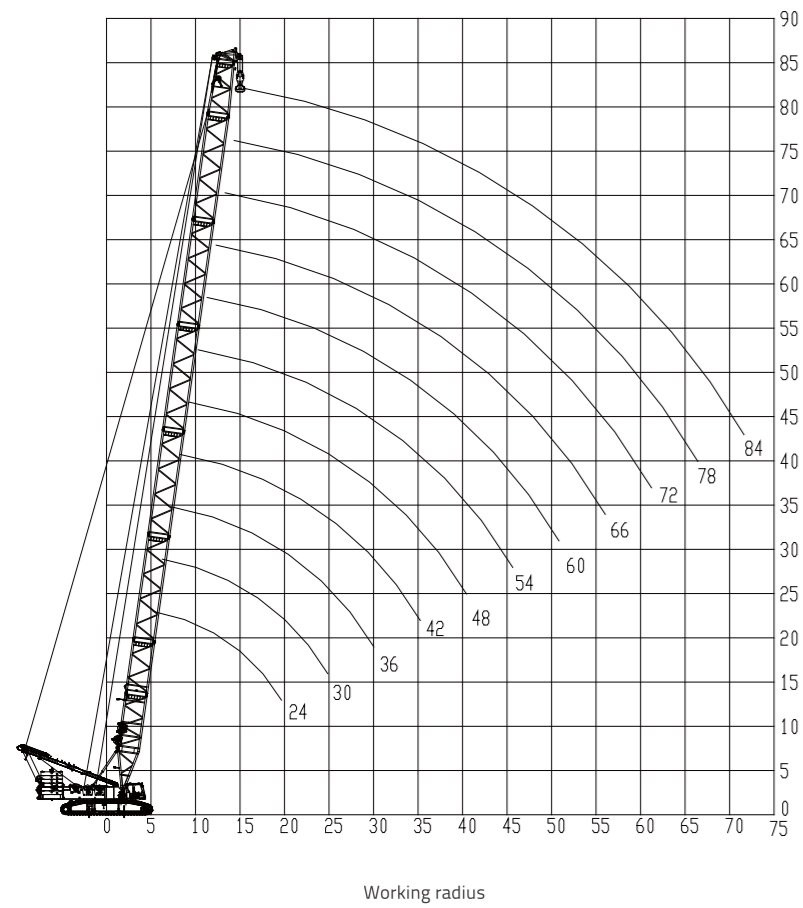
### Hook

- All rotatable hooks are equipped with a mousing.
- Hook for 400t (double rope hook): 2×8 pulleys.
- Hook for 300t: 12 pulleys.
- Hook for 200t: 8 pulleys.
- Hook for 160t (double rope hook): 2×3 pulleys.
- Hook for 100t: 4 pulleys.
- Hook for 50t: 2 pulleys.
- Hook for 16t: cylindrical hook.



# LIFTING PERFORMANCE

Operating mode S



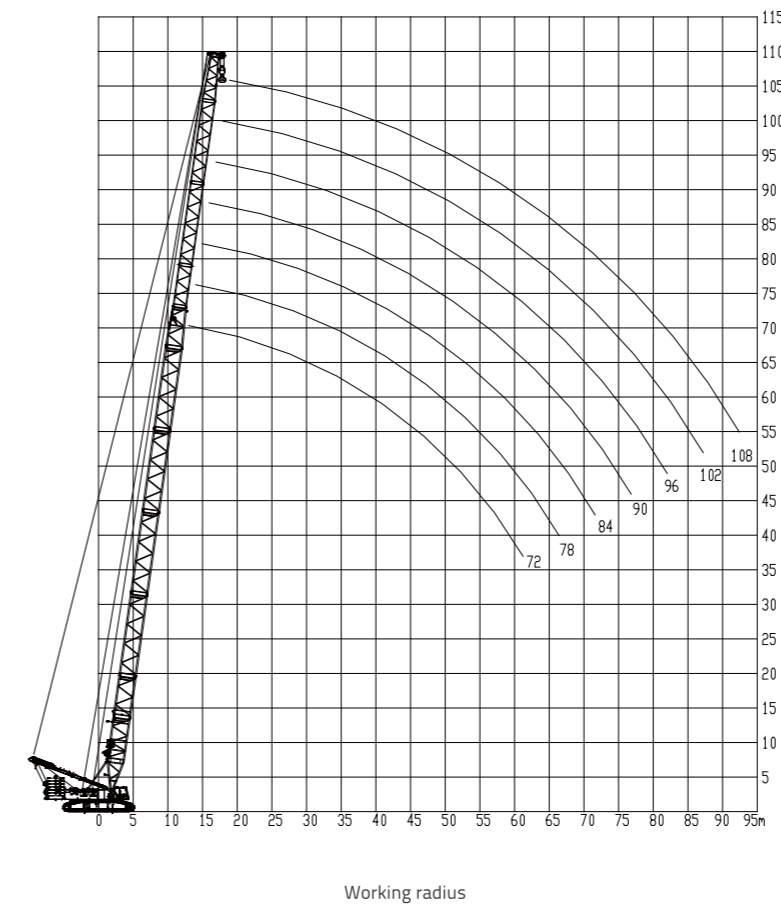
Unit: m

Radius m	Rear counterweight: 150t Central ballast: 40t											
	Main boom length (m)											
	24	30	36	42	48	54	60	66	72	78	84	
6	400	400										
7	372	372	369	355								
8	319	319	319	314	305	297						
9	283	283	283	281	275	268	261	244				
10	252	252	250	245	239	233	227	221	215			
11	224	225	220	215	210	205	200	195	191	182	157	
12	195	196	196	191	187	183	179	175	171	167	155	
14	155	155	155	155	153	150	147	144	141	138	135	
16	127	128	128	127	127	126	124	121	119	117	114	
18	108	108	108	108	107	107	106	105	102	101	98.6	
20	93.1	93.7	93.3	93.1	92.5	92.1	91.4	91.1	89.7	88.1	86.2	
22	81.5	82.1	81.7	81.5	80.9	80.4	79.7	79.4	78.7	77.9	76.1	
24		72.8	72.4	72.2	71.5	71	70.3	70	69.2	68.8	67.8	
26		65.1	64.7	64.5	63.8	63.4	62.6	62.3	61.5	61.1	60.3	
28		58.6	58.3	58.1	57.4	56.9	56.2	55.9	55	54.6	53.8	
30			52.9	52.7	52	51.5	50.7	50.4	49.6	49.1	48.3	
32			48.2	48	47.3	46.8	46	45.7	44.8	44.4	43.5	
34				44	43.2	42.8	41.9	41.6	40.8	40.3	39.4	
36				40.4	39.7	39.2	38.4	38.1	37.2	36.7	35.8	
38				37.2	36.5	36.1	35.2	34.9	34	33.6	32.7	
40					33.7	33.2	32.4	32.1	31.2	30.8	29.8	
44					28.9	28.4	27.6	27.3	26.4	26	25	
48						24.5	23.7	23.4	22.5	22	21.1	
52							20.3	20.1	19.2	18.7	17.8	
56								17.3	16.3	15.9	15	
60									13.9	13.5	12.6	
64										11.8	11.4	10.5
68											9.6	8.6
72												7

Unit: t

# LIFTING PERFORMANCE

Operating mode SL



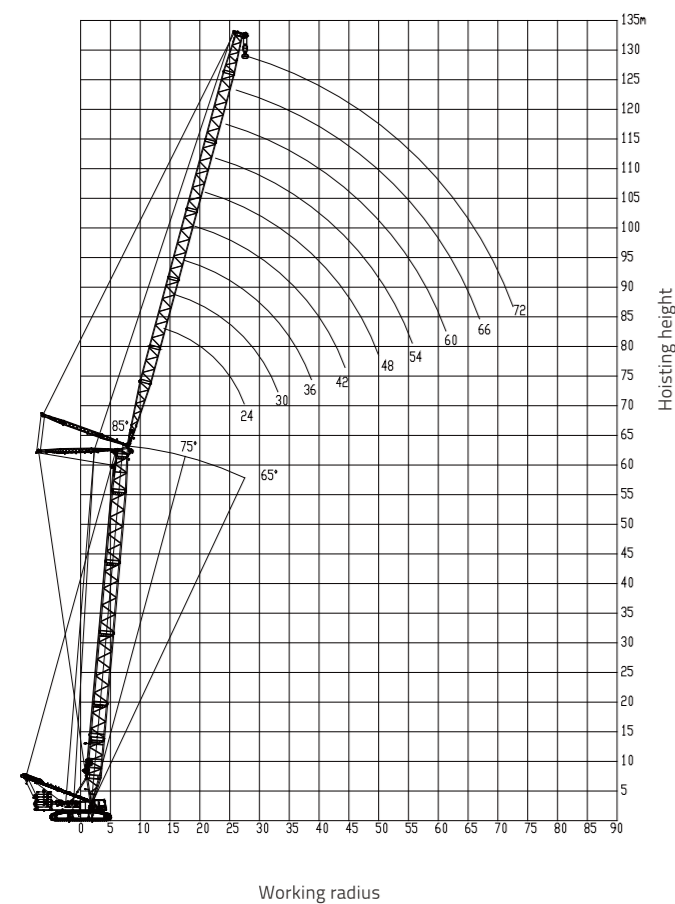
Unit: m

Radius m	Rear counterweight: 150t Central ballast: 40t						
	Main boom length (m)						
	72	78	84	90	96	102	108
10	215	195					
11	192	187	165	145			
12	172	168	163	143	127	101	
14	142	139	136	133	123	97.7	86
16	120	117	115	113	111	94.5	80.6
18	104	101	99.7	97.6	96	91.1	75.7
20	91	89	87.4	85.4	84.1	83.3	70.9
22	80.1	78.8	77.4	75.6	74.5	73.8	66.1
24	70.7	69.9	69.2	67.5	66.4	66	61.9
26	63.1	62.2	61.7	60.6	59.7	59.4	57.9
28	56.6	55.7	55.3	54.4	54.1	53.9	53.2
30	51.1	50.3	49.8	48.9	48.7	49	48.5
32	46.5	45.6	45.1	44.2	44.1	44.6	44.3
34	42.4	41.5	41	40.1	39.9	40.6	40.6
36	38.8	37.9	37.5	36.5	36.3	36.9	37.1
38	35.7	34.8	34.3	33.3	33.1	33.8	33.8
40	32.9	32	31.4	30.5	30.4	30.9	31
44	28.1	27.2	26.7	25.8	25.5	26.1	26.2
48	24.2	23.3	22.7	21.8	21.6	22.2	22.2
52	20.9	20	19.5	18.5	18.3	18.9	18.9
56	18.2	17.2	16.7	15.7	15.5	16.1	15.5
60	15.7	14.8	14.3	13.3	13.1	13.7	11.7
64	13.6	12.7	12.2	11.2	11	11.6	8.2
68		10.9	10.4	9.4	9.2	9.8	4.9
72			8.7	7.8	7.6	8.2	
76				6.3	6.1	6.7	
80				5	4.8	5.4	
84					3.3	4.3	

Unit: t

# LIFTING PERFORMANCE

Operating mode SW



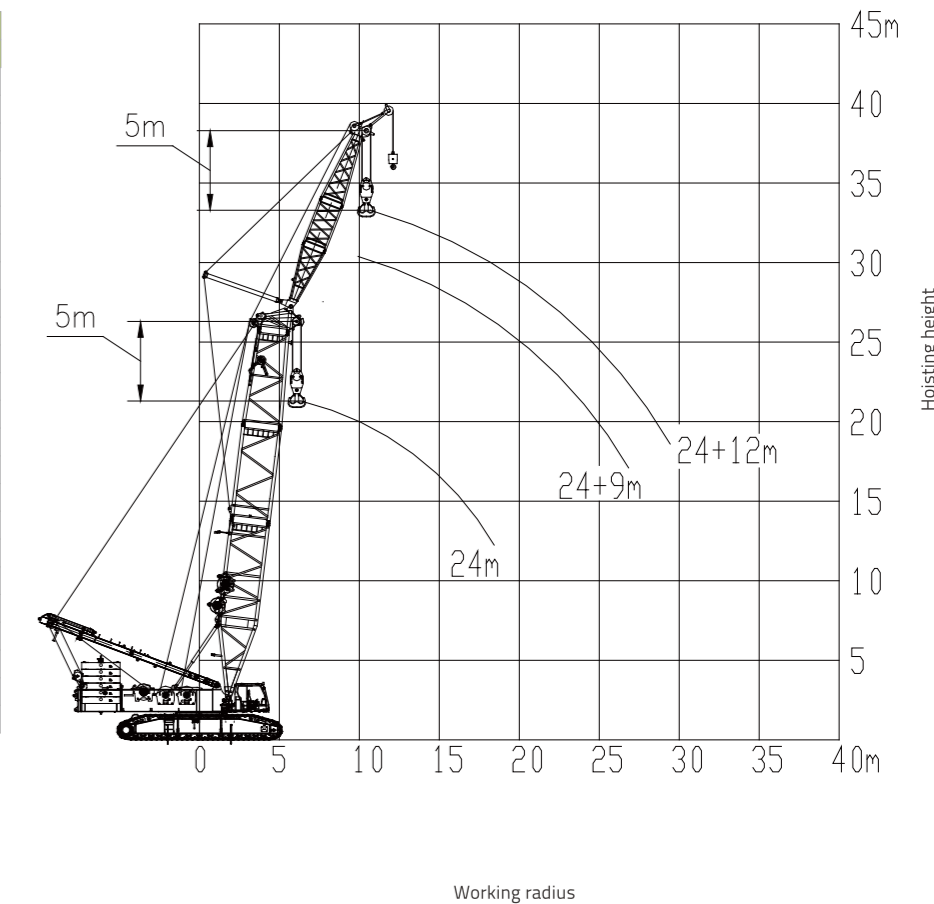
Unit: m

Radius m	Rear counterweight: 150t Central ballast: 40t Main boom length: 30m								
	Luffing jib length (m)								
	24	30	36	42	48	54	60	66	72
14	151								
16	132	128	123						
18	117	113	110	107					
20	102	102	99.2	96.3	93.4				
22	90.2	89.9	89.5	87.5	85	82.5	80.2		
24	80.6	80.4	80	79.6	77.9	75.6	73.5	71.7	
26	72.7	72.6	72.2	71.8	71.3	69.7	67.7	66.1	64.2
28	66.1	66	65.7	65.3	64.8	64.3	62.8	61.2	59.5
30		60.5	60.2	59.8	59.3	58.7	58.2	57	55.3
32		55.6	55.4	55	54.5	54	53.5	53.2	51.6
34		51.4	51.3	50.9	50.4	49.9	49.4	49	48.4
36			47.6	47.3	46.8	46.3	45.8	45.4	44.9
38			44.3	44.1	43.6	43.1	42.6	42.2	41.7
40			41.4	41.2	40.7	40.2	39.7	39.4	38.9
44				36.2	35.9	35.4	34.9	34.6	34
48					31.8	31.4	30.9	30.6	30.1
52					28.4	28	27.6	27.3	26.8
56						25.2	24.7	24.5	23.9
60							22.3	22	21.5
64								19.9	19.4
68								18	17.5
72									15.9
76									

Unit: t

# LIFTING PERFORMANCE

Operating mode SFVA



Unit: m

Radius m	Rear counterweight: 150t Central ballast: 40t Main boom length: 60m											
	Luffing jib length (m)											
	24	30	36	42	48	54	60	66	72			
16	109											
18	98.2	95										
20	89.1	86.3	83.7	81.2								
22	81.4	78.9	76.5	74.3	72							
24	74.9	72.7	70.5	68.4	66.3	64.4						
26	69.3	67.2	65.2	63.4	61.4	59.6	57.7					
28	64.6	62.6	60.7	58.9	57.1	55.3	53.6	52.2	50.5			
30	59.4	58.5	56.7	55	53.2	51.6	50	48.7	47.1			
32		54.5	53.1	51.6	49.9	48.4	46.7	45.6	44			
34		50.4	49.9	48.4	46.8	45.3	43.9	42.7	41.3			
36		46.8	46.5	45.6	44.2	42.7	41.3	40.2	38.8			
38			43.3	42.9	41.7	40.3	38.9	37.8	36.5			
40			40.5	40.1	39.5	38.1	36.8	35.8	34.4			
44				35.4	34.9	34.3	33	32	30.8			
48					31.4	31	30.5	29.8	28.9	27.7		
52						27.7	27.2	26.7	26.2	25.1		
56							24.4	23.9	23.6	22.8		
60								22	21.5	20.7		
64									19.4	18.6		
68										17.3	16.8	
72											15.7	15.2
76												13.7
16	109											

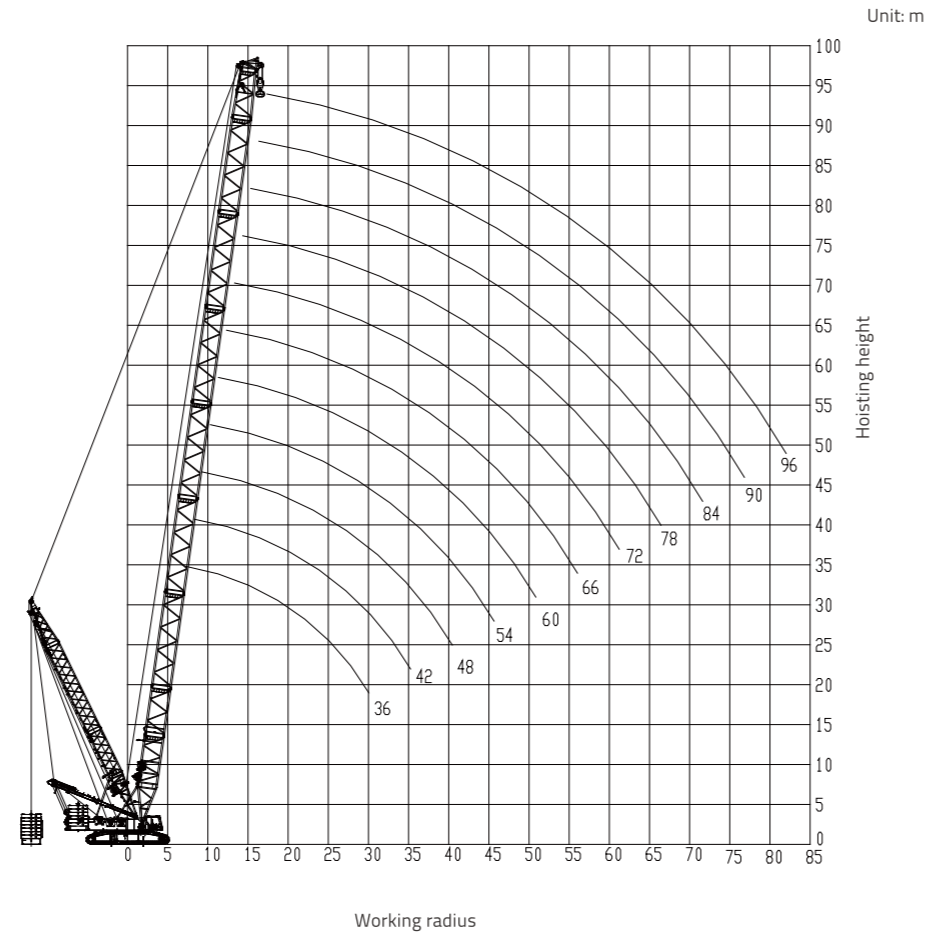
Unit: t

# LIFTING PERFORMANCE

Lifting height curves of operating mode SDB

Unit: t

Main boom angle	Radius of main hook	Radius of turning over	Radius of auxiliary hook	Load capacity of main hook	Load capacity of turning over	Load capacity of auxiliary hook
80.77	7.0	9.4	11.8	364.0	280.0	195.9
80.47	7.1	9.6	12.0	357.7	276.4	195.0
78.32	8.0	10.7	13.3	314.0	241.4	168.8
77.19	8.5	11.2	14.0	296.1	225.5	155.0
75.84	9.0	11.9	14.8	275.0	209.3	143.7
73.84	9.8	12.9	16.0	251.1	189.0	127.0
73.32	10.0	13.2	16.3	245.0	184.5	124.0
70.77	11.0	14.4	17.8	212.0	160.5	109.1
70.40	11.1	14.6	18.0	208.0	157.5	107.0
68.16	12.0	15.6	19.3	184.0	140.7	97.4
66.86	12.5	16.2	20.0	173.9	133.0	92.0
63.19	13.8	17.9	22.0	146.1	113.2	80.2
62.77	14.0	18.1	22.2	143.0	111.1	79.1
59.36	15.2	19.6	24.0	126.7	98.7	70.7
57.06	16.0	20.6	25.2	116.0	91.1	66.1
55.32	16.6	21.3	26.0	110.2	86.5	62.8
51.02	18.0	23.0	28.0	96.6	76.4	56.3
50.90	18.0	23.0	28.1	96.2	76.2	56.1
46.35	19.4	24.7	30.0	86.2	68.4	50.7
44.06	20.0	25.5	30.9	81.4	65.0	48.5
41.18	20.8	26.4	32.0	76.9	61.4	45.9
36.10	22.0	27.9	33.7	69.6	55.7	41.8

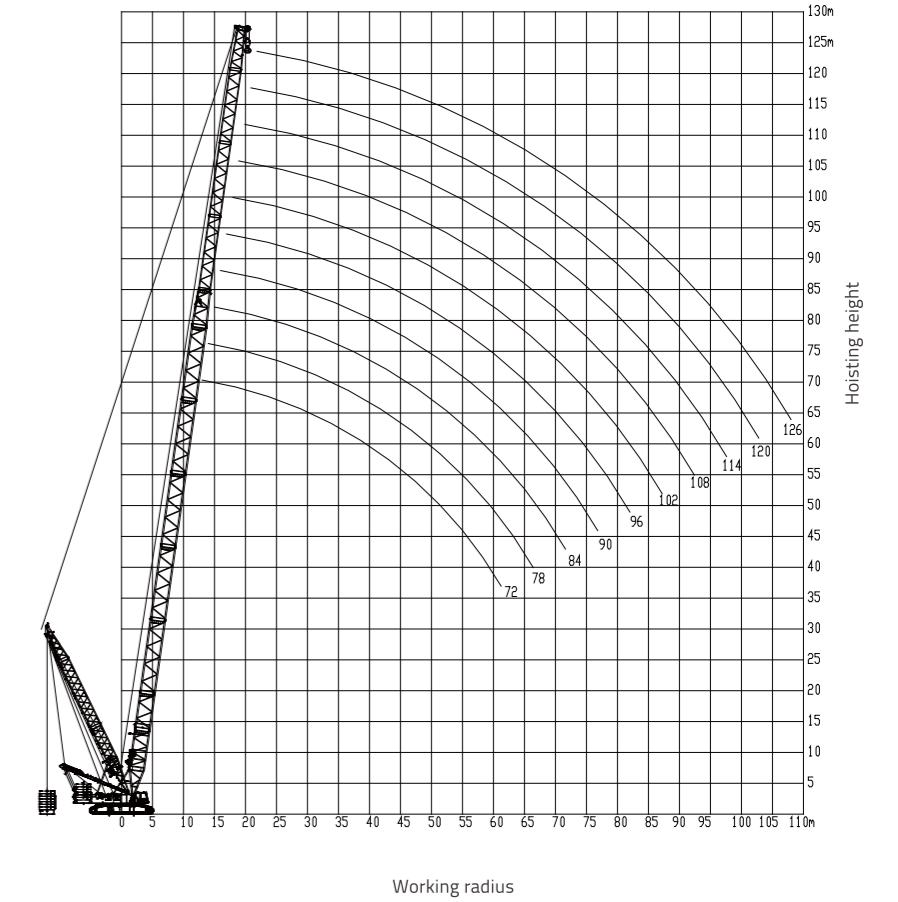


# LIFTING PERFORMANCE

Operating mode SLDB

Unit: t

Radius m	Main boom length (m)												
	36	42	48	54	60	66	72	78	84	90	96		
7	400												
8	400	400											
9	400	400	400	367									
10	400	400	400	367	350								
11	400	400	400	367	350	298	262						
12	400	400	400	367	350	298	262	232	206				
14	393	393	392	367	350	298	262	232	206	176	155		
16	341	339	340	340	340	297	262	230	204	175	154		
18	300	300	299	299	297	296	259	228	203	174	154		
20	268	268	266	266	266	266	256	226	200	172	154		
22	242	242	241	241	239	239	239	223	199	170	152		
24	219	219	220	218	218	218	216	216	197	169	151		
26	201	202	201	201	199	199	199	197	194	167	149		
28	181	185	186	185	184	184	182	182	182	166	148		
30	163	172	172	171	170	170	169	169	168	164	145		
32	147	160	159	159	158	158	157	157	156	156	137		
34		146	148	147	147	147	146	145	145	144	132		
36		133	138	137	137	136	136	135	134	134	127		
38		122	129	129	128	128	127	126	126	125	122		
40			121	121	120	120	119	118	118	117	116		
44			103	107	106	106	105	105	104	104	103		
48				95	95.2	95	94.1	93.7	92.9	92.4	91.5		
52					86	85.7	84.9	84.5	83.6	83.2	82.3		
56						77.9	77	76.6	75.8	75.3	74.4		
60							70.3	69.9	69	68.6	67.6		
64								64.4	64.1	63.2	62.7	61.8	
68									58.9	58	57.6	56.6	
72										53.5	53	50.5	
76											49	45.5	
80												45.3	39.3



# LIFTING PERFORMANCE

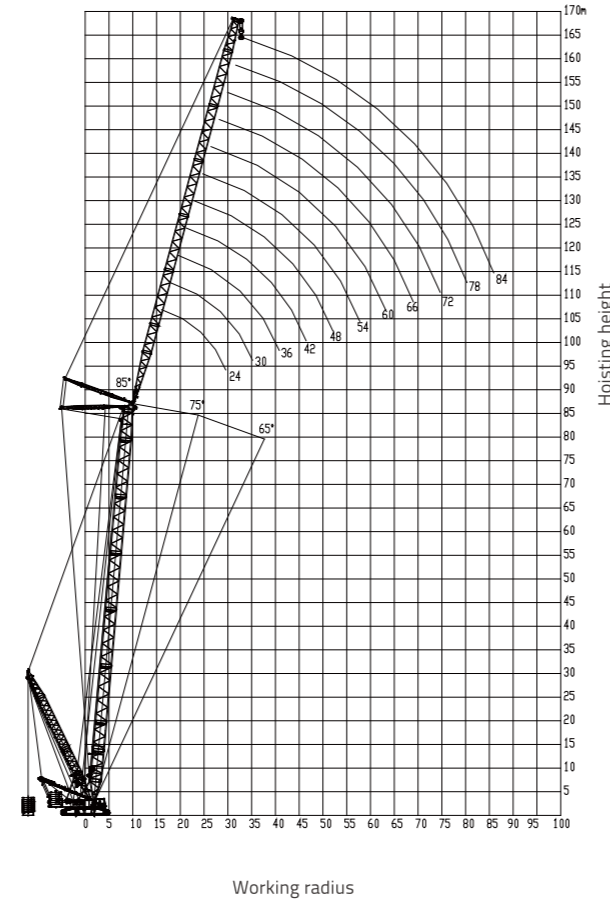
Unit: t

Derrick boom: 30m Radius of suspended ballast: 16m Rear counterweight: 110t Central ballast: 40t Suspended ballast: 230t											
Radius m	Main boom length (m)										
	72	78	84	90	96	102	108	114	120	126	
11	235	217									
12	235	217	197								
14	235	217	197	177	155	124					
16	235	217	197	177	155	124	107	96	84		
18	235	217	195	176	155	124	105	94.9	81.5	69	
20	235	217	194	174	154	124	102	92.1	78.6	66.8	
22	235	217	192	173	154	124	99.8	89.7	76.1	64.3	
24	219	214	190	171	153	123	96.7	87.6	74.1	62.3	
26	201	199	189	169	152	121	94.8	84.5	71.5	59.7	
28	185	184	182	169	150	119	91.7	82.4	68.7	56.8	
30	171	169	169	166	145	116	89.8	80.5	66.5	54.8	
32	159	158	157	156	137	114	86.7	78.1	64.5	53.5	
34	148	146	146	145	132	112	84.7	76.1	62	51.4	
36	137	136	136	135	127	110	81.7	74.2	59.9	49.4	
38	129	127	127	126	122	108	79.7	72.1	58.6	47.3	
40	121	119	119	118	116	106	78.6	70.1	56.6	46	
44	107	106	106	105	105	102	73.6	65.8	53.2	42.6	
48	96	95.1	94.7	93.8	93.7	93.7	70.5	62.6	50.3	40	
52	86.7	85.9	85.4	84.5	84.4	84.4	67.8	59.4	47.1	37.2	
56	78.9	78	77.6	76.7	76.5	76.5	65.5	57.4	44.5	35.2	
60	72.1	71.3	70.8	69.9	69.8	69.8	62.4	54.9	42.4	33.5	
64	66.3	65.4	65	64.1	63.6	63.9	60.5	53	41.1	31.8	
68		60.3	59.8	58.9	57.4	58.8	58.5	51	39.1	30.5	
72			55.3	54.4	50.5	54.2	54	49.8	37.8	29.2	
76				50.4	45.5	50.2	49.9	48.2	36.2	27.7	
80				46.7	39.3	46.5	46.3	46.2	35.7	26.8	
84					34.3	43.3	43	42.9	34.4	25.8	
88						40.3	40.1	39.9	33.7	25.1	
92							37.4	37.2	33.7	24.7	
96								34.8	32.9	24.3	
100									32.5	23.8	
104										30.1	23.4
108											23.4

# LIFTING PERFORMANCE

Operating mode SWDB

Unit: m



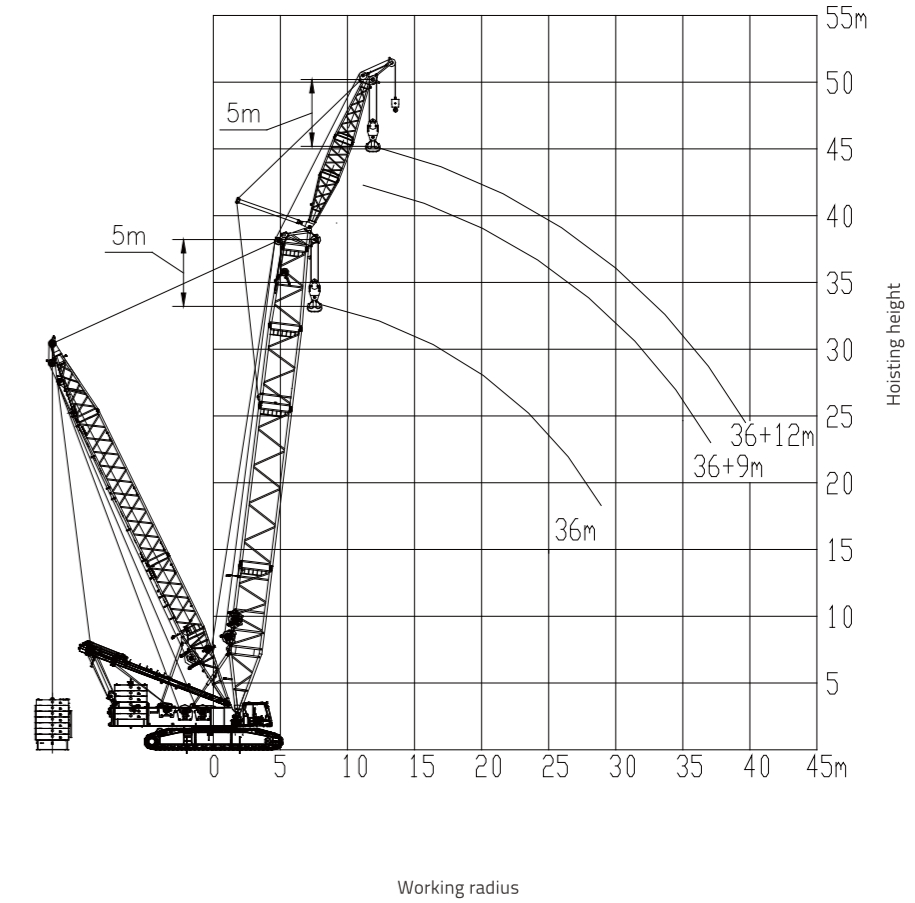
# LIFTING PERFORMANCE

Unit: t

Suspended ballast: 230t Radius of suspended ballast: 16m Rear counterweight: 110 Central ballast: 40t Main boom length: 84m														
Radius m	Main boom length (m)													
	24	30	36	42	48	54	60	66	72	78	84			
18	113													
20	109	98.4												
22	103	95.4	85.4	76										
24	97.7	92	83.2	74.8	65.4									
26	92.7	88.3	80.7	73.2	64.7	56.7								
28	88.1	84.5	78	71.4	63.9	56.3	49							
30	83.8	80.8	75.2	69.5	62.8	55.7	48.7	42.4	36.9					
32	79.5	77.1	72.4	67.4	61.5	55	48.3	42.2	36.8	32				
34		73.6	69.5	65.3	59.9	54.3	47.8	42	36.6	31.9	27.8			
36		70.2	66.7	63.1	58.3	53.4	47.3	41.6	36.4	31.7	27.6			
38		67.2	63.9	60.9	56.7	52.5	46.7	41.3	36.2	31.5	27.5			
40			61.3	58.7	55	51.3	46	40.8	35.9	31.3	27.4			
44			56.4	54.5	51.5	48.8	44.6	39.9	35.2	30.9	27			
48				49.6	48.2	46.1	42.8	38.8	34.5	30.4	26.6			
52					44.1	42.6	40.7	37.6	33.7	29.8	26.1			
56						39.1	37.8	36.1	32.7	29.1	25.7			
60							35.7	34.8	33.7	31.8	27.9	24.4		
64								31.9	31.2	29.7	26.2	22.4		
68									28.8	27.8	23.5	19.9		
72										26.8	26	21.1	17.6	
76											24.5	18.9	15.6	
80												17	13.8	
84													15.3	12.2

Operating mode SFVDB

Unit: m



# LIFTING PERFORMANCE

Unit: t

Rear counterweight: 110t Central ballast: 40t Radius of suspended ballast: 16m Suspended ballast: 230t Main boom: 36m Jib: 12m						
Main boom angle	Radius of main hook	Radius of turning over	Radius of auxiliary hook	Load capacity of main hook	Load capacity of turning over	Load capacity of auxiliary hook
80.65	9.0	11.4	13.8	384.0	291.2	198.3
80.45	9.1	11.6	14.0	384.0	291.0	198.0
79.23	9.9	12.4	15.0	384.0	286.5	189.0
79.02	10.0	12.6	15.2	384.0	285.8	187.6
78.00	10.6	13.3	16.0	384.0	282.5	181.0
77.38	11.0	13.8	16.5	384.0	280.5	177.0
76.77	11.4	14.2	17.0	384.0	278.5	173.0
75.73	12.0	14.9	17.8	384.0	275.6	167.2
75.52	12.1	15.1	18.0	383.9	275.0	166.0
74.27	12.9	15.9	19.0	383.6	271.8	160.0
73.00	13.6	16.8	20.0	383.2	268.6	154.0
72.38	14.0	17.2	20.5	383.0	267.3	151.6
71.72	14.4	17.7	21.0	372.8	260.9	149.0
70.43	15.1	18.6	22.0	353.2	248.6	144.0
68.97	16.0	19.6	23.1	331.0	235.0	138.9
67.81	16.7	20.3	24.0	317.4	226.2	135.0
65.46	18.0	21.9	25.8	290.0	209.0	128.0
65.13	18.2	22.1	26.0	287.0	207.0	127.0
62.37	19.7	23.9	28.0	261.8	190.9	120.0
61.84	20.0	24.2	28.4	257.0	187.9	118.8
59.53	21.2	25.6	30.0	241.5	177.8	114.0
58.07	22.0	26.5	31.0	232.0	171.5	111.0
56.58	22.8	27.4	32.0	223.1	165.6	108.0
54.14	24.0	28.8	33.6	209.0	156.5	104.0
53.50	24.3	29.2	34.0	205.4	154.2	103.0
50.27	25.9	30.9	36.0	187.6	143.3	99.0
49.98	26.0	31.1	36.2	186.0	142.3	98.6
46.85	27.4	32.7	38.0	171.8	133.4	95.0

Unit: t

Rear counterweight: 110t Central ballast: 40t Radius of suspended ballast: 16m Suspended ballast: 230t Main boom: 36m Jib: 9m						
Main boom angle	Radius of main hook	Radius of turning over	Radius of auxiliary hook	Load capacity of main hook	Load capacity of turning over	Load capacity of auxiliary hook
80.65	9.0	10.5	12.1	396.0	298.0	200.0
79.43	9.8	11.4	13.0	396.0	298.0	200.0
79.02	10.0	11.7	13.3	396.0	298.0	200.0
78.13	10.5	12.3	14.0	396.0	298.0	200.0
77.38	11.0	12.8	14.6	396.0	298.0	200.0
76.83	11.3	13.2	15.0	396.0	298.0	200.0
75.73	12.0	13.9	15.8	396.0	298.0	200.0
75.52	12.1	14.1	16.0	395.2	297.6	200.0
74.20	12.9	15.0	17.0	390.0	295.0	200.0
72.86	13.7	15.9	18.0	384.8	292.4	200.0
72.38	14.0	16.2	18.4	383.0	290.2	197.5
71.52	14.5	16.8	19.0	369.7	281.4	193.0
70.16	15.3	17.7	20.0	349.1	267.5	186.0
68.97	16.0	18.4	20.9	331.0	255.9	180.8
68.79	16.1	18.6	21.0	329.0	254.5	180.0
67.40	16.9	19.4	22.0	313.5	243.8	174.0
65.46	18.0	20.7	23.4	292.0	229.2	166.4
64.58	18.5	21.2	24.0	283.9	223.5	163.0
61.84	20.0	22.9	25.9	259.0	206.7	154.5
61.67	20.1	23.0	26.0	257.9	205.9	154.0
58.67	21.7	24.8	28.0	237.1	191.5	146.0
58.07	22.0	25.2	28.4	233.0	188.8	144.6
55.56	23.3	26.6	30.0	218.2	178.6	139.0
54.14	24.0	27.4	30.9	210.0	172.9	135.9
52.31	24.9	28.4	32.0	199.7	165.9	132.0
49.98	26.0	29.7	33.4	187.0	157.8	128.6
48.88	26.5	30.3	34.0	182.0	154.5	127.0
45.52	28.0	31.9	35.9	167.0	144.2	121.4

# LIFTING PERFORMANCE

Unit: t

Rear counterweight: 110t Central ballast: 40t Radius of suspended ballast: 16m Suspended ballast: 230t Main boom: 36m Jib: 12m						
Main boom angle	Radius of main hook	Radius of turning over	Radius of auxiliary hook	Load capacity of main hook	Load capacity of turning over	Load capacity of auxiliary hook
80.65	9.0	11.4	13.8	384.0	291.2	198.3
80.45	9.1	11.6	14.0	384.0	291.0	198.0
79.23	9.9	12.4	15.0	384.0	286.5	189.0
79.02	10.0	12.6	15.2	384.0	285.8	187.6
78.00	10.6	13.3	16.0	384.0	282.5	181.0
77.38	11.0	13.8	16.5	384.0	280.5	177.0
76.77	11.4	14.2	17.0	384.0	278.5	173.0
75.73	12.0	14.9	17.8	384.0	275.6	167.2
75.52	12.1	15.1	18.0	383.9	275.0	166.0
74.27	12.9	15.9	19.0	383.6	271.8	160.0
73.00	13.6	16.8	20.0	383.2	268.6	154.0
72.38	14.0	17.2	20.5	383.0	267.3	151.6
71.72	14.4	17.7	21.0	372.8	260.9	149.0
70.43	15.1	18.6	22.0	353.2	248.6	144.0
68.97	16.0	19.6	23.1	331.0	235.0	138.9
67.81	16.7	20.3	24.0	317.4	226.2	135.0
65.46	18.0	21.9	25.8	290.0	209.0	128.0
65.13	18.2	22.1	26.0	287.0	207.0	127.0
62.37	19.7	23.9	28.0	261.8	190.9	120.0
61.84	20.0	24.2	28.4	257.0	187.9	118.8
59.53	21.2	25.6	30.0	241.5	177.8	114.0
58.07	22.0	26.5	31.0	232.0	171.5	111.0
56.58	22.8	27.4	32.0	223.1	165.6	108.0
54.14	24.0	28.8	33.6	209.0	156.5	104.0
53.50	24.3	29.2	34.0	205.4	154.2	103.0
50.27	25.9	30.9	36.0	187.6	143.3	99.0
49.98	26.0	31.1	36.2	186.0	142.3	98.6
46.85	27.4	32.7	38.0	171.8	133.4	95.0

## TECHNICAL PARAMETERS

Items		Parameters
Max. lifting capacity (t) / radius (m) / boom length (m)		400/6/24 (standard), 400/12/36 (superlift)
Max. lifting moment (t.m)		5500
Main boom length (m)		24~84 (standard), 36~96 (superlift)
Light main boom length (m)		72~108(standard), 72~126 (superlift)
Length of SFV jib (for shield-tunneling machine) (m)		9~12
Max. lifting capacity of SFV/SFVDB jib (t)		200
Main boom length of operating mode SFV/SFVDB (m)		24 (standard), 36 (superlift)
Length of luffing jib (m)		24~72 (standard), 24~84 (superlift)
Max. lifting capacity of luffing jib (t)		150 (standard), 235 (superlift)
Main boom length of operating mode SW/SWDB (m)		30~60 (standard), 36~84 (superlift)
Max. length of main boom + luffing jib		60+72 (standard), 84+84 (superlift)
Speed of a single rope	Main hoisting winch (m/min)	160
	Secondary hoisting winch (m/min)	160
	Main derricking winch (m/min)	2×55
	Superlift derricking winch (m/min)	160
	Luffing jib derricking winch (m/min)	154
	Tip boom hoisting winch (m/min)	139
Max. slewing speed (rpm)		1.2
Max. crawling speed (km/h)		1.0
Gradeability (%)		20
Ground pressure (MPa)		0.17
Total weight with main boom (t)		340
Max transport weight of a single component (t)		42 (without A-frame and winches)
Engine	Manufacturer/model	Wei Chai/WP10,5H
	Rated power / rotational speed (kW/rpm)	316/1900
	Max. output torque / rotational speed (Nm/rpm)	1800/(1000-1400)
	Emission standard	China IV for Non-road Mobile Machinery